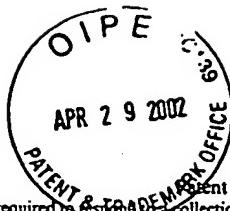


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Sheet 1 of 8

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Application Number	10/057,991
Filing Date	January 29, 2002
First Named Inventor	Handelman
Group Art Unit	
Examiner Name	

Attorney Docket Number

U.S. PATENT DOCUMENTS

Examiners Initials	Cite No. ¹	U.S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
AC	AA	4,626,075	Chemla	12-2-1986	
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AC	AQ	6,233,082	Johnson	05-15-2001	

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AC	AR	Mining the Optical Bandwidth for a Terabit per second, Alan Wilner, IEEE Spectrum, April 1997, Pages 32-41	
AC	AS	Record Data-Transmission Rate Reported at ECOC '96, Laser Focus World, November 1996, pages 40-42	

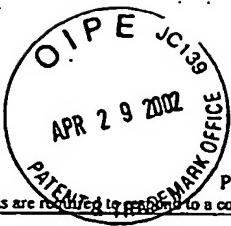
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	8	Application Number	10/057,991
				Filing Date	January 29, 2002
				First Named Inventor	Handelman
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			
MC	AT	Multiple Wavelengths Exploit Fiber Capacity, Eric Lerner, Laser Focus World, July 1997, pages 119-125			
MC	AU	Advances in Dense WDM push diode-laser design, Diana Zankowsky, Laser Focus World, August 1997, pages 167-171			
MC	AV	Multistage Amplifier Provides Gain across 80 nm, pages 22-23			
MC	AW	Optical Switching Promises cure for telecommunications logjam, Jeff Hecht, Laser Focus World, September 1998, pages 69-72			
MC	AX	The Communications Handbook, Jeffrey Gibson, 1997, pages 883-890			
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MC	AZ	Optical Switches Ease Bandwidth Crunch, Europhotonics, Rien Flipse, August/September 1998, pages 44-45			
MC	BA	Speed Demons: Is 'Faster' Better and Cheaper? Stephanie Weiss, Photonics Spectra, February 1999, pages 96-102			
MC	BB	Wavelength Lockers Keep Lasers in Line, Ed Miskovic, Photonics Spectra, February 1999, pages 104-110			
MC	BC	Optical Switches Pursue Crossconnect Markets, Hassaun Jones-Bey, Laser Focus World, May 1998, pages 153-162			
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MC	BE	Optical Networks, Hector Escobar, Photonics Spectra, December 1998, pages 163-167			

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Sheet 3 of 8

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Application Number	10/057,991
Filing Date	January 29, 2002
First Named Inventor	Handelman
Group Art Unit	
Examiner Name	

Ref ID	Citation Designation	Reference Cited	RECEIVED Technology Center 2800 MAY 11 2002	
			Date	Comments
MC	BF	Ultrafast Optical Switch Unveiled, Photonics Spectra, Michael Wheeler, December 1998, page 42		
MC	BG	Data Express, Gigabit Junction with the Next-Generation Internet, John Collins et al., IEEE Spectrum, February 1999, pages 18-25		
MC	BH	Designing Broadband Fiber Optic Communications Systems, Juan Lam, Communication Systems Design, February 1999		
MC	BI	Terabit-Transmission Demonstrations make a splash at OFC '96, Laser Focus World, April 1996, page 13		
MC	BJ	Multigigabit Networks: The Challenge, Claude Rolland et al., IEEE LTD, May 1992, pages 16-26		
MC	BK	Direct Detection Lightwave Systems: Why Pay More? Paul Green et al., IEEE LCS, November 1990, pages 36-49		
MC	BL	Photonics in Switching, Scott Hinton, IEEE LTD, August 1992, pages 26-35		
MC	BM	Advanced Technology for Fiber Optic Subscriber Systems, Hiromu Taba et al., IEEE LTS, November 1992, pages 12-18		
MC	BN	Fiber Amplifiers Expand Network Capacities, Eric Lerner, Laser Focus World, August 1997, pages 85-96		
MC	BO	Technologies for Local-Access Fiber, Yukou Mochida, IEEE Communications Magazine, February 1994, pages 64-72		
MC	BP	Wavelength Assignment in Multiphop Lightwave Networks, Aura Ganz et al., IEEE Transactions on Communications, Vol. 42, No. 7, July 1994, pages 2460-2469		
MC	BQ	Wavelength-Division Switching Technology in Photonic Switching Systems, Suzuki et al., IEEE International Conference on Communications, ICC 1990, pages 1125-1129		

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Application Number	10/057,991
Filing Date	January 29, 2002
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Group Art Unit	
Examiner Name	

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NC	BR	Branch-Exchange Sequences for Reconfiguration of Lightwave Networks, Labourdette et al., IEEE Transactions on Communications, Vol. 42, No. 10, October 1994, pages 2822-2832	
NC	BS	Use of Delegated Tuning and Forwarding in Wavelength Division Multiple Access Networks, Auerbach et al., IEEE Transactions on Communications, Vol. 43, No. 1, January 1995, pages 52-63	
NC	BT	Design and Cost Performance of the Multistage WDN-PON Access Network, Guido Maier et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 125-143	
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NC	BW	All-Optical Networks Need Optical Switches, Jeff Hecht, Laser Focus World, May 2000, pages 189-196	
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NC	BY	Asynchronous Time Division Switching, Achille Pattavina, IEEE Communication Handbook, 1997, pages 686-700	
NC	BZ	Multiple Access Methods for Communications Networks, Izhak Rubin, IEEE Communications Handbook, 1997, pages 622-649	

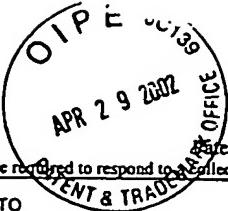
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Sheet 5 of 8

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Application Number	10/057,991
Filing Date	January 29, 2002
First Named Inventor	Handelman
Group Art Unit	
Examiner Name	

Attorney Docket Number

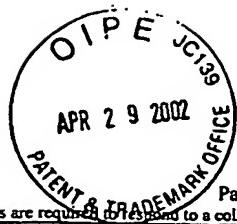
Ref	CA	Combining Gratings and Filters Reduces WDM Channel Spacing, Pan and Shi, OptoElectronics World, September 1998, pages S11-S17	RECEIVED Technology Center 2600 MAY 11 2002
AC	CB	Picosecond-Accuracy All-Optical Bit Phase Sensing Using a Nonlinear Optical Loop Mirror, Hall et al., IEEE Photonics Technology Letters, Vol. 7, No. 8, August 1995, pages 935-937	
AC	CC	An Ultrafast Variable Optical Delay Technique, Hall et al., IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 208-210	
AC	CD	Prescaled 6.3 GHz clock recovery from 50 Gbit/s TDM Optical Signal with 50 GHz PLL using four-wave mixing in a travelling wave laser diode optical amplifier, Electronics Letters, 12 May 1994, Vol. 30, No. 10, pages 807-809	
AC	CE	Variable Optical delay line with diffraction limited Autoalignment, Klovekorn and Munch, Applied Optics, April 1, 1998, Vol. 37, No. 10, pages 1903-1904	
AC	CF	Compact 40 Gbit/s Optical Demultiplexer using a GaInAsP Optical Amplifier, Electronics Letters, November 25, 1993, Vol. 29, No. 24, pages 2115-2116	
AC	CG	Lucent Upgrades WaveStar to 320-Channel, 800-Gb/s Transmission; Chalmers Develops 49-dB Optical Parametric Amplifier, Photonics Spectra, June 2000, page 46	
AC	CH	Bit-Rate Flexible All-Optical Demultiplexing Using a Nonlinear Optical Loop Mirror, Patrick et al., Electronics Letters, April 15, 1993, Vol. 29, No. 8, pages 702-703	
AC	CI	All-Optical High Speed Demultiplexing with a Semiconductor Laser Amplifier in a Loop Mirror Configuration, Eiselt et al., Electronics Letters, June 24, 1993, Vol. 29, No. 13, pages 1167-1168	
AC	CJ	Optical Amplifiers Revolutionize Communications, Laser Focus World, September 1998, pages 28-32	

Examiner Signature		Date Considered	8/24/05
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Substitute for form 1448A/PTO				Complete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number
Sheet	6	of	8	Filing Date
				First Named Inventor
				Group Art Unit
				Examiner Name
				Attorney Docket Number

MC	CK	Single Interferometer Demultiplexes 40 Gbit/s Optical-Time-Division-Multiplexed Signal, Laser Focus World, November 1999, page 11	MAY 1 2002 Technology Center 2600
MC	CL	Fiber-Optic Chips Multiplex 16 T1/E1 Channels Over One Cable, Electronic Design, April 17, 2000, page 46	
MC	CM	Analysis and Dimensioning of Switchless Networks for Single-Layer Optical Architecture, Binetti et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 144-153	
MC	CN	100-Gbit/s Bitwise Logic, Hall et al., MIT Lincoln Laboratory, Optics Letters, Vol. 23, No. 16, August 15, 1998, pages 1271-1273	
MC	CO	An Optical Technique for Bit and Packet Synchronization, Blixt and Bowers, IEEE Photonics Technology Letters, Vol. 7, No. 1, January 1995, pages 123-125	
MC	CP	Double-Spreading Modulation Scheme Picks up Where CDMA and TDMA Leave Off, Electronics Designs, July 10, 2000, pages 28-32	
MC	CQ	Transmission of a True Single Polarisation 40 Gbit/s Soliton Data Signal Over 205km Using a Stabilised Erbium Fibre Ring Laser and 40 GHz Electronic Timing Recovery, Ellis et al., Electronic Letters, Vol. 29, No. 11, May 27, 1993, pages 990-992	
MC	CR	Time-Stretch Methods Capture Fast Waveforms, Jalali et al., Microwaves & RF, April 1999, pages 62-69	
MC	CS	The Fiber-Optic Subscriber Network in Japan, Wakui, IEEE Communications Magazine, February 1994, pages 56-63	
MC	CT	A Justification for a Variable Bandwidth Allocation Methodology for SONET Virtually Concatenated SPEs, Nevin JONES and Trevor WILSON, Lucent Technologies, July 10-14, 2000	
MC	CU	Higher Order SONET Virtual Concatenation, Nevin JONES, Paul LANGNER and Charles WEBB, Lucent Technologies, April 9, 1999	

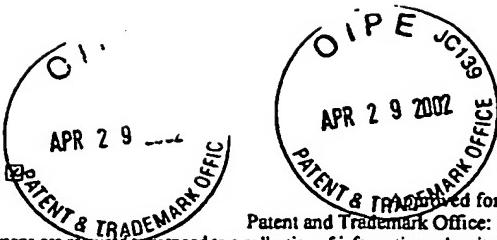
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Sheet	7	of	8	Application Number
				10/057,991
				Filing Date
				January 29, 2002
				First Named Inventor
				Handelman
				Group Art Unit
				Examiner Name
				Attorney Docket Number

Ref	Citation Designation	Reference	RECEIVED Technology Center 2600 MAY 9 1 2002
Me	CV	The Communications Handbook, 1997, Chapter 39, pages 542-553	
MC	CW	The Communications Handbook, 1997, Chapter 40, pages 554-564	
MC	CX	Architectural and Technological Issues for Future Optical Internet Networks, Listanti, et al., IEEE Communications Magazine, September 2000, pages 82-92	
NC	CY	IP Over Optical Networks: Architectural Aspects, Rajagopalan, et al., IEEE Communications Magazine, September 2000, pages 94-102	
NC	CZ	Labeled Optical Burst Switching for IP-over-WDM Integration, Chunming Qiao, IEEE Communications Magazine, September 2000, pages 104-114	
NC	DA	Approaches to Optical Internet Packet Switching, Hunter, et al., IEEE Communications Magazine, September 2000, pages 116-122	
Me	DB	Photonic Switches: Fast, but Functional? McCarthy, Photonics Spectra, March 2001, pages 140-150	
Me	DC	The Communications Handbook, Gibson, A CRC Handbook Published in Cooperation with IEEE Press, 1997 CRC Press, Inc., pages 513-528	
Me	DD	A Proposed Link Capacity Adjustment Scheme (LCAS) for SONET Virtually Concatenated SPEs, Jones, et al., Lucent Technologies, T1X1.5/200-199, pages 1-30	
Me	DE	Fiber-based components meets the needs of next-generation amplifiers, Bourgeois, WDM Solutions, March 2001, pages 67-74 www.optoelectronics-world.com	
Me	DF	Spectral Equalization Keeps Optical Signals in Line, Ashmead, WDM Solutions, January 2001, pages 32-38 www.optoelectronics-world.com	
Me	DG	Keep Your Photons in Line, Wesson et al., Photonics Spectra, September 1999, pages 102-108	
NC	DH	Router Promises Faster Switching, Robinson, Photonics Technology World, Photonics Spectra, August 2001, page 24	

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known
Sheet	8	of	8	Attorney Docket Number

MC	DI	On a Dynamic Wavelength Assignment Algorithm for Wavelength Routed All-Optical Networks, Andrei G. Stoica, et al., Optical Networks Magazine, January/February 2002, pages 68 – 80	Technology Center 2600 RECEIVED MAY 11 2002
MC	DJ	XOR: A Logical Choice of All-Optical Networks, Perry J. Greenbaum, IEEE Photonics Technology Letters, Vol. 13, July 2001, pp 750-752, Photonics Spectra, November 2001, pages 30 and 31	
MC	DK	On Adaptive Routing in Wavelength-Routed Networks, Ching-Fang Hsu, et al., Optical Networks Magazine, January/February 2002, pages 15 – 24	
MC	DL	A Comparative Study of Distributed Protocols for Wavelength Reservation in WDM Optical Networks, Debasish Saha, Optical Networks Magazine, January/February 2002, pages 45 52	
MC	DM	A Framework for Unified Traffic Engineering in IP over WDM Networks, Jinhan Song, et al., Optical Networks Magazine, November/December 2001, pages 28 – 33	
MC	DN	Optimization of Wavelength Allocation in WDM Optical Buffers, Franco Callegati, Optical Networks Magazine, November/December 2001, pages 66 – 72	
MC	DO	A Simple Dynamic Integrated Provisioning/Protection Scheme in IP over WDM Networks, Yinghua Ye, et al., IEEE Communications Magazine, November 2001, pages 174 – 182	
MC	DP	Photonic Packet Switching and Optical Label Swapping, Daniel J. Blumenthal, Optical Networks Magazine, November/December 2001, pages 54 – 65	
MC	DQ	Intelligent Optical Networking for Multilayer Survivability, Sophie de Maesschalck, et al., IEEE Communications Magazine, January 2002, pages 42 – 49	

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Sheet

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Application Number	10/057,991
Filing Date	January 29, 2002
First Named Inventor	HANDELMAN
Group Art Unit	
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